

WE CLAIM:

1. A coating composition having a dispersed fluoropolymer resin, said composition comprising:
 - i) at least about 70 wt.% on a resin solids basis of a polyvinylidene difluoride;
 - ii) an organic solvent; and
 - iii) a dispersant.
2. The coating composition of claim 1 wherein the fluoropolymer dispersion includes about 30 to about 40 wt.% resin solids on a total composition basis and about 60 to about 70 wt.% of the organic solvent on a total composition basis.
3. The coating composition of claim 2 wherein the resin solids comprise about 85 to about 95 wt.% on a resin solids basis of the polyvinylidene difluoride and about 5 to about 15 wt.% on a resin solids basis of a thermoplastic acrylic polymer.
4. The coating composition of claim 3 comprising about 0.01 to about 1.0 wt.% of the dispersant.
5. The coating composition of claim 3 wherein the dispersant includes an oxyalkylated amino alcohol.
6. The coating composition of claim 1 wherein the dispersant includes a polymer having at least one amino group.

8. The coating composition of claim 1 further comprising an acrylic polymer.
9. The coating composition of claim 1 further comprising a silica.
10. The coating composition of claim 1 comprising at least about 30 wt.% on a total composition basis of the polyvinylidene difluoride.
11. A composite material comprising a metal substrate having at least one surface covered with a cured vinylidene difluoride polymer-based film which is formed by coating a substrate surface with the coating composition of claim 1 and heating the coated metal substrate.
12. A coating composition having a dispersed fluoropolymer resin comprising:
- i) at least about 30 wt.%, on a total composition basis, of a polyvinylidene difluoride;
 - ii) an organic solvent;
 - iii) about 5 to about 15 wt.% on a resin solids basis of a thermoplastic acrylic polymer; and
 - iv) a dispersant including a oxyalkylated amino alcohol.
13. The coating composition of claim 12 wherein the organic solvent comprises toluene, a xylene, a

phthalate, a glycol monoether, a glycol ester, a monoester of an alkyleneoxy ether, or a mixture thereof.

14. The coating composition of claim 12 wherein the organic solvent comprises toluene, xylenes, dimethyl phthalate, propyleneglycol methyl ether acetate, dipropyleneglycol methyl ester acetate, butyl cellosolve, n-butanol, or a mixture thereof.
15. The coating composition of claim 12 wherein the thermoplastic acrylic polymer comprises a copolymer of methyl methacrylate and ethyl acrylate.
16. The coating composition of claim 12 comprising at least about 85 wt.% on a resin solids basis of the polyvinylidene difluoride.